## REMARKS

Reconsideration of this application, in view of the foregoing amendments and the following remarks, is respectfully requested.

## Claim Rejections - 35 USC § 103

Claims 1, 3-8, and 13-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zak U.S. Patent No 6,452,991 B1 in view of Li et at U.S. Pub 2003/0215022 Al. Applicants respectfully traverse these rejections.

There are three basic criteria to establish a prima facie case of obviousness under 35 U.S.C. §103(a). First, there must be some suggestion or motivation in the cited references to modify or combine their teachings; second, there must be reasonable expectation of success; and third, the prior art references must teach or suggest all the claim limitations. See M.P.E.P §2142. As to claim 1, the combination of cited references does not teach or suggest all the claim limitations.

Claim 1 has been amended to recite correlating at least one sample of the sequence of samples with one or more samples of the sequence of samples to generate a plurality of correlation results; computing a correlation value from the plurality of correlation results; and comparing the correlation value with a threshold. The combination of cited references does not teach this limitation. Accordingly, claim 1 is patentably distinguishable from the combination of cited references.

Claims 15 and 19 have been amended in the manner of claim 1 and are patentably distinguishable from the combination of cited references for at least the same reasons as claim 1.

Applicant believes this application and the claims herein to be in a condition for allowance. Should the Examiner have further inquiry concerning these matters, please contact the below named attorney for Applicant.

Respectfully submitted,

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